

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/578,943
Source: IFWP
Date Processed by STIC: 5/22/06

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 05/22/2006

PATENT APPLICATION: US/10/578,943

TIME: 14:17:29

Input Set : A:\41976.txt

Output Set: N:\CRF4\05222006\J578943.raw

3 <110> APPLICANT: The Regents of the University of Colorado, a Body
Corporate

4 Kim, Soo Hyun

5 Dinarello, Charles A.

6 Azam, Tania

8 <120> TITLE OF INVENTION: Compositions and Methods for Regulation of Tumor
Necrosis

9 Factor Alpha

11 <130> FILE REFERENCE: UTC 08870

C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/578,943

C--> 14 <141> CURRENT FILING DATE: 2006-05-08

16 <160> NUMBER OF SEQ ID NOS: 27

18 <170> SOFTWARE: PatentIn version 3.2

20 <210> SEQ ID NO: 1

21 <211> LENGTH: 20

22 <212> TYPE: DNA

23 <213> ORGANISM: Artificial Sequence

25 <220> FEATURE:

26 <223> OTHER INFORMATION: Synthetic

28 <400> SEQUENCE: 1

29 ctgtcccgag tctggacttt 20

32 <210> SEQ ID NO: 2

33 <211> LENGTH: 21

34 <212> TYPE: DNA

35 <213> ORGANISM: Artificial Sequence

37 <220> FEATURE:

38 <223> OTHER INFORMATION: Synthetic

40 <400> SEQUENCE: 2

41 gcaaaggtgg tggtcagtat c 21

44 <210> SEQ ID NO: 3

45 <211> LENGTH: 396

46 <212> TYPE: DNA

47 <213> ORGANISM: Homo sapiens

49 <400> SEQUENCE: 3

50 atgtgcttcc cgaaggtcct ctctgatgac atgaagaagc tgaaggcccg aatgcaccag 60

52 gctatagaaa gattttatga taaaatgcaa aatgcagaat caggacgtgg acaggtgatg 120

54 tcgagcctgg cagagctgga ggacgacttc aaagagggct acctggagac agtggcggct 180

56 tattatgagg agcagcacc agagctcact cctctacttg aaaaagaaag agatggatta 240

58 cggtgccgag gcaacagatc ccctgtcccg gatgttgagg atcccgaac cgaggagcct 300

60 ggggagagct tttgtgacaa gtctacgga gcccacggg gggacaagga ggagctgaca 360

62 cccagaagt gctctgaacc ccaatcctca aaatga 396

65 <210> SEQ ID NO: 4

66 <211> LENGTH: 567

67 <212> TYPE: DNA

68 <213> ORGANISM: Homo sapiens

RAW SEQUENCE LISTING

DATE: 05/22/2006

PATENT APPLICATION: US/10/578,943

TIME: 14:17:29

Input Set : A:\41976.txt

Output Set: N:\CRF4\05222006\J578943.raw

70 <400> SEQUENCE: 4

```

71 atgtgcttcc cgaaggtcct ctctgatgac atgaagaagc tgaaggcccg aatgcaccag      60
73 gccatagaaa gattttatga taaaatgcaa aatgcagaat caggacgtgg acaggtgatg      120
75 tcgagcctgg cagagctgga ggacgacttc aaagagggct acctggagac agtggcggt      180
77 tattatgagg agcagcaccc agagctcact cctctacttg aaaaagaaag agatggatta      240
79 cggtgccgag gcaacagatc ccctgtcccg gatgttgagg atcccgcac cgaggagcct      300
81 ggggagagct tttgtgacaa ggcatgaga tggttccagg ccatgctgca gcggtgcag      360
83 acctggtggc acgggggttct ggctgggtg aaggagaagg tggtgccct ggtccatgca      420
85 gtgcaggccc tctggaaaca gttccagagt ttctgctgct ctctgtcaga gctcttcag      480
87 tcctctttcc agtcctacgg agccccacgg ggggacaagg aggagctgac accccagaag      540
89 tgctctgaac cccaatcctc aaaatga

```

92 <210> SEQ ID NO: 5

93 <211> LENGTH: 705

94 <212> TYPE: DNA

95 <213> ORGANISM: Homo sapiens

97 <400> SEQUENCE: 5

```

98 atgtgcttcc cgaaggtcct ctctgatgac atgaagaagc tgaaggcccg aatggtaatg      60
100 ctctcccta cttctgctca ggggttgggg gcctgggtct cagcgtgtga cactgaggac      120
102 actgtgggac acctgggacc ctggagggac aaggatccgg ccctttggtg ccaactctgc      180
104 ctctcttcac agcaccaggc catagaaaga ttttatgata aaatgcaaaa tgcagaatca      240
106 ggacgtggac aggtgatgtc gagcctggca gagctggagg acgacttcaa agagggctac      300
108 ctggagacag tggcggttta ttatgaggag cagcaccag agctcactcc tctacttgaa      360
110 aaagaaagag atggattacg gtgccgaggc aacagatccc ctgtcccga tgttgaggat      420
112 cccgcaaccg aggagcctgg ggagagcttt tgtgacaagg tcatgagatg gttccaggcc      480
114 atgctgcagc ggctgcagac ctgggtggcag ggggttctgg cctgggtgaa ggagaagggtg      540
116 gtggccctgg tccatgcagt gcaggccctc tggaaacagt tccagagttt ctgctgctct      600
118 ctgtcagagc tcttcagtc ctctttccag tctacggag cccacgggg ggacaaggag      660
120 gagctgacac cccagaagtg ctctgaacct caatcctcaa aatga

```

123 <210> SEQ ID NO: 6

124 <211> LENGTH: 537

125 <212> TYPE: DNA

126 <213> ORGANISM: Homo sapiens

128 <400> SEQUENCE: 6

```

129 atgaagaagc tgaaggcccg aatgcaccag gccatagaaa gattttatga taaaatgcaa      60
131 aatgcagaat caggacgtgg acaggtgatg tcgagcctgg cagagctgga ggacgacttc      120
133 aaagagggct acctggagac agtggcggt tattatgagg agcagcaccc agagctcact      180
135 cctctacttg aaaaagaaag agatggatta cggtgccgag gcaacagatc ccctgtcccg      240
137 gatgttgagg atcccgcac cgaggagcct ggggagagct tttgtgacaa ggcatgaga      300
139 tggttccagg ccatgctgca gcggtgcag acctggtggc acgggggttct ggctgggtg      360
141 aaggagaagg tggtgccct ggtccatgca gtgcaggccc tctggaaaca gttccagagt      420
143 ttctgctgct ctctgtcaga gctcttcag tcctctttcc agtcctacgg agccccacgg      480
145 ggggacaagg aggagctgac accccagaag tgctctgaac cccaatcctc aaaatga

```

148 <210> SEQ ID NO: 7

149 <211> LENGTH: 131

150 <212> TYPE: PRT

151 <213> ORGANISM: Homo sapiens

153 <400> SEQUENCE: 7

```

155 Met Cys Phe Pro Lys Val Leu Ser Asp Asp Met Lys Lys Leu Lys Ala
156 1           5           10           15

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/578,943

DATE: 05/22/2006

TIME: 14:17:29

Input Set : A:\41976.txt

Output Set: N:\CRF4\05222006\J578943.raw

```

159 Arg Met His Gln Ala Ile Glu Arg Phe Tyr Asp Lys Met Gln Asn Ala
160          20          25          30
163 Glu Ser Gly Arg Gly Gln Val Met Ser Ser Leu Ala Glu Leu Glu Asp
164          35          40          45
167 Asp Phe Lys Glu Gly Tyr Leu Glu Thr Val Ala Ala Tyr Tyr Glu Glu
168          50          55          60
171 Gln His Pro Glu Leu Thr Pro Leu Leu Glu Lys Glu Arg Asp Gly Leu
172 65          70          75          80
175 Arg Cys Arg Gly Asn Arg Ser Pro Val Pro Asp Val Glu Asp Pro Ala
176          85          90          95
179 Thr Glu Glu Pro Gly Glu Ser Phe Cys Asp Lys Ser Tyr Gly Ala Pro
180          100         105         110
183 Arg Gly Asp Lys Glu Glu Leu Thr Pro Gln Lys Cys Ser Glu Pro Gln
184          115         120         125
187 Ser Ser Lys
188          130
191 <210> SEQ ID NO: 8
192 <211> LENGTH: 188
193 <212> TYPE: PRT
194 <213> ORGANISM: Homo sapiens
196 <400> SEQUENCE: 8
198 Met Cys Phe Pro Lys Val Leu Ser Asp Asp Met Lys Lys Leu Lys Ala
199 1          5          10          15
202 Arg Met His Gln Ala Ile Glu Arg Phe Tyr Asp Lys Met Gln Asn Ala
203          20          25          30
206 Glu Ser Gly Arg Gly Gln Val Met Ser Ser Leu Ala Glu Leu Glu Asp
207          35          40          45
210 Asp Phe Lys Glu Gly Tyr Leu Glu Thr Val Ala Ala Tyr Tyr Glu Glu
211          50          55          60
214 Gln His Pro Glu Leu Thr Pro Leu Leu Glu Lys Glu Arg Asp Gly Leu
215 65          70          75          80
218 Arg Cys Arg Gly Asn Arg Ser Pro Val Pro Asp Val Glu Asp Pro Ala
219          85          90          95
222 Thr Glu Glu Pro Gly Glu Ser Phe Cys Asp Lys Val Met Arg Trp Phe
223          100         105         110
226 Gln Ala Met Leu Gln Arg Leu Gln Thr Trp Trp His Gly Val Leu Ala
227          115         120         125
230 Trp Val Lys Glu Lys Val Val Ala Leu Val His Ala Val Gln Ala Leu
231          130         135         140
234 Trp Lys Gln Phe Gln Ser Phe Cys Cys Ser Leu Ser Glu Leu Phe Met
235 145         150         155         160
238 Ser Ser Phe Gln Ser Tyr Gly Ala Pro Arg Gly Asp Lys Glu Glu Leu
239          165         170         175
242 Thr Pro Gln Lys Cys Ser Glu Pro Gln Ser Ser Lys
243          180         185
246 <210> SEQ ID NO: 9
247 <211> LENGTH: 234
248 <212> TYPE: PRT
249 <213> ORGANISM: Homo sapiens

```

RAW SEQUENCE LISTING

DATE: 05/22/2006

PATENT APPLICATION: US/10/578,943

TIME: 14:17:29

Input Set : A:\41976.txt

Output Set: N:\CRF4\05222006\J578943.raw

251 <400> SEQUENCE: 9

```

253 Met Cys Phe Pro Lys Val Leu Ser Asp Asp Met Lys Lys Leu Lys Ala
254 1 5 10 15
257 Arg Met Val Met Leu Leu Pro Thr Ser Ala Gln Gly Leu Gly Ala Trp
258 20 25 30
261 Val Ser Ala Cys Asp Thr Glu Asp Thr Val Gly His Leu Gly Pro Trp
262 35 40 45
265 Arg Asp Lys Asp Pro Ala Leu Trp Cys Gln Leu Cys Leu Ser Ser Gln
266 50 55 60
269 His Gln Ala Ile Glu Arg Phe Tyr Asp Lys Met Gln Asn Ala Glu Ser
270 65 70 75 80
273 Gly Arg Gly Gln Val Met Ser Ser Leu Ala Glu Leu Glu Asp Asp Phe
274 85 90 95
277 Lys Glu Gly Tyr Leu Glu Thr Val Ala Ala Tyr Tyr Glu Glu Gln His
278 100 105 110
281 Pro Glu Leu Thr Pro Leu Leu Glu Lys Glu Arg Asp Gly Leu Arg Cys
282 115 120 125
285 Arg Gly Asn Arg Ser Pro Val Pro Asp Val Glu Asp Pro Ala Thr Glu
286 130 135 140
289 Glu Pro Gly Glu Ser Phe Cys Asp Lys Val Met Arg Trp Phe Gln Ala
290 145 150 155 160
293 Met Leu Gln Arg Leu Gln Thr Trp Trp His Gly Val Leu Ala Trp Val
294 165 170 175
297 Lys Glu Lys Val Val Ala Leu Val His Ala Val Gln Ala Leu Trp Lys
298 180 185 190
301 Gln Phe Gln Ser Phe Cys Cys Ser Leu Ser Glu Leu Phe Met Ser Ser
302 195 200 205
305 Phe Gln Ser Tyr Gly Ala Pro Arg Gly Asp Lys Glu Glu Leu Thr Pro
306 210 215 220
309 Gln Lys Cys Ser Glu Pro Gln Ser Ser Lys
310 225 230

```

313 <210> SEQ ID NO: 10

314 <211> LENGTH: 178

315 <212> TYPE: PRT

316 <213> ORGANISM: Homo sapiens

318 <400> SEQUENCE: 10

```

320 Met Lys Lys Leu Lys Ala Arg Met His Gln Ala Ile Glu Arg Phe Tyr
321 1 5 10 15
324 Asp Lys Met Gln Asn Ala Glu Ser Gly Arg Gly Gln Val Met Ser Ser
325 20 25 30
328 Leu Ala Glu Leu Glu Asp Asp Phe Lys Glu Gly Tyr Leu Glu Thr Val
329 35 40 45
332 Ala Ala Tyr Tyr Glu Glu Gln His Pro Glu Leu Thr Pro Leu Leu Glu
333 50 55 60
336 Lys Glu Arg Asp Gly Leu Arg Cys Arg Gly Asn Arg Ser Pro Val Pro
337 65 70 75 80
340 Asp Val Glu Asp Pro Ala Thr Glu Glu Pro Gly Glu Ser Phe Cys Asp
341 85 90 95
344 Lys Val Met Arg Trp Phe Gln Ala Met Leu Gln Arg Leu Gln Thr Trp

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/578,943

DATE: 05/22/2006

TIME: 14:17:29

Input Set : A:\41976.txt

Output Set: N:\CRF4\05222006\J578943.raw

```

345          100          105          110
348 Trp His Gly Val Leu Ala Trp Val Lys Glu Lys Val Val Ala Leu Val
349          115          120          125
352 His Ala Val Gln Ala Leu Trp Lys Gln Phe Gln Ser Phe Cys Cys Ser
353          130          135          140
356 Leu Ser Glu Leu Phe Met Ser Ser Phe Gln Ser Tyr Gly Ala Pro Arg
357 145          150          155          160
360 Gly Asp Lys Glu Glu Leu Thr Pro Gln Lys Cys Ser Glu Pro Gln Ser
361          165          170          175
364 Ser Lys
368 <210> SEQ ID NO: 11
369 <211> LENGTH: 5000
370 <212> TYPE: DNA
371 <213> ORGANISM: Homo sapiens
373 <400> SEQUENCE: 11
374 gacctaggggtg gaccctatatt caatatgact ggtgtccttt ggaaagggga aagggggaca      60
376 gtcacaccca ggcagaacgt gatgaagatg aagatggcca tctacaaggg caggagaaac      120
378 ctgaacagaa tcccagctcc gggccctcag aaggacccca cgtgcccac attgacctg      180
380 gacctccagc ctgcagatcg tgaggggaaga gacgtcttcg acttagggcc ccttgctcg      240
382 gtacttccctt agtttggccc caggaaacca tcccaaaggc aagggcgtgg ttgtgctcg      300
384 ctgggggaag ggggctgggg gccgtgagga ggaggtggga ggcccagcca ggctggaggg      360
386 tcagaaccgc tggagctaga agagcccgtg ggggagcccc aagattgctg agaccagtga      420
388 ccttcggccc cagatggcct tgccctggcc cagaaggggtc agaaggacct ggtcagccaa      480
390 gctcagacag ccggcaggat gccttcacc ctgcagaggg tctatcttg tcccacaggt      540
392 agatctacat caccactagc caccctcca acgtgcacag gcccctgcc tcacggcgcc      600
394 cctcttaggt ccggcagttc ctgcctcctt ctgatccaga agtttctctg gcctctggag      660
396 ccggggcaca cctcatgcaa ggacagggtc caaattcctt tgtccttggg tccacttgg      720
398 ctgacgtcac ctctctgtac tcaggaggtt tcccagcca gctgtcccga gtctggactt      780
400 tccctctgcc cctcccact ctcaggctgg tggggtgggg aaagcagccc attcctgggc      840
402 tcagagactc ccaccccagc tcagagggag caggggcccc gccagggacg gacctcatt      900
404 cctcccaggg accccagacc tctgtctctc tcgggtaagt ctccatctct gtctgtctct      960
406 gtctctgtct ctgtctctgt ctgtttttca cgcactcagc aaggcctcct gccctgagag      1020
408 aggtcccgcc cactaccccc cactttcccc ataaaaccag ctgagtattt gtgccaggaa      1080
410 gactgcgtgc agaaggtgac tgtctcagtg gagctgggtc atctcagggt gggagtggg      1140
412 gtccccgaag gtgaggaccc tctggggagg aggggtgctt tctgagacac tttcttttcc      1200
414 tcacacctgt tctcgcagc caggccttgg ctccctgaac ttttgccgc catgtgcttc      1260
416 ccgaagggtg gtgagaggct gcgtgtgctt ttgtgggcat gtctgaaaac agaccgtaag      1320
418 ggtgcgggtg ccctcagtat ttcccagggt gcctgtgtgt cagggtcag tcaggggcac      1380
420 ccagcggcag gaggatagt atggggtgag agtgtcagtg gaggcgctgg aggtcatatg      1440
422 tgtcgggggc gctggagaac ggcaggggtg tggatgagag ggagcacctg tcccaggagc      1500
424 ccttcacagc ccggaagcc cggggcaggg gtggggcagg gctctgctgg aaacgactcg      1560
426 gagaatgctt ctctcagagg ccggtcagc tgggtggggc caagagcaag gcctgtgtgg      1620
428 gtcctggtgt ctcttctcc tttcctgggt tccctccgac ctccatcct ctaccactgc      1680
430 cccaccgcaa atgctaggcc caccacaccc tccagggagc tcttcggcct gtgacaatag      1740
432 gggtttccat gatgtggcct ggctcagggt caggacagtg acccgaggga cacatggctc      1800
434 ccgcatgtcg gcacgggtgct gctttcacc tggttcctgg gaaatcaggc tagcgggatg      1860
436 ggaccatcgc tgctgaaag tgtgcagaca gctgccctgc ccagaatatg tcccagggcc      1920
438 ctgcgcactc tgtgggtgac tgtcaccact ctatagtggg ggaaaccagg catgtcaccc      1980
440 ccgagactag gcccttgac tgggggctca gcggggattc tgtgggggtc ctctggcctc      2040

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/578,943

DATE: 05/22/2006

TIME: 14:17:30

Input Set : A:\41976.txt

Output Set: N:\CRF4\05222006\J578943.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date